GEORGIA ENHANCEMENTS:
TECHNICAL

Miguel Morales, GeorgiaBEST
Information Technology Services
April 23, 2014
QUESTIONS/COMMENTS

- Please use the text/chat box on your WebEx window to enter any questions or comments.
- We will try to address all of them after the Presentation concludes.
THE GEORGIA BEST TEAM
TOPICS OF DISCUSSION

- Banner Infrastructure
  - Database Objects
  - Code Tree
- Job Submission
- Database Extension Utility
- GeorgiaBEST Release Process
PRODUCT AND VERSION REQUIREMENTS

- **Internet Native Banner (INB):**
  - Oracle WebLogic 10.3.6
  - OFM PFRD 11.1.1.6

- **Self Service Banner (SSB):**
  - Oracle WebLogic 10.3.6
  - OFM WebTier Utilities 11.1.1.6
INTERNET NATIVE BANNER

- Oracle Fusion Middleware
  - Oracle Forms
  - Oracle Reports
- Oracle HTTP Server (OHS)
  - Apache 2.x based
  - mod_plsql
- Oracle WebLogic Server 11g
  - Oracle Forms and Reports Support
Self-Service BANNER pages are generated by the execution of Oracle PL/SQL stored procedures in the BANNER database.

Look and Feel controlled by CSS files.

BANNER Web Tailor also manages navigation and access controls.
BANNER DATABASE OBJECTS

- Product owners (schemas)
  - Tables
  - Views
  - Packages, Procedures and Functions
  - Triggers
IMPORTANT BANNER SCHEMAS

- **BANINST1**
  - Owns all the functions, packages, procedures, and views
  - WTAILOR owns the packages for SSB (all start with tw or bw)

- **BANSECR**
  - Owns the Banner security tables and objects
  - No other user should have access to BANSECR’s objects
  - The only exception is for a site-specific BANSECR user
BANNER DATABASE OBJECTS

- Modules, Schema and Product Codes
  - General: GENERAL G
  - Student: SATURN S
  - Finance: FIMSMGR F
  - AR: TAISMGR T
  - Position Control: POSNCTL N
  - Payroll: PAYROLL P
  - FinAid: FAISMGR R
  - Advancement: ALUMNI A
  - Self Service: WTAILOR TW
  - Georgia Enhancements: GASIS Z
BANNER DATABASE OBJECTS

- Database objects (Tables and views)
  - Example:
    
    | G | L | R | V | R | B | L |
    |---|---|---|---|---|---|---|
    | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

1 - Primary Module (S- Student, G- General, F- Finance)
2 - Sub-module (L- Letter generation, G- General Person)
3 - Type of object (R- Report, A- Form, R- Repeating table)
4-7 - Meaningful name
IF Position 2 is a T and Position 3 is a V, then the object is a validation table
BANNER CODE TREE
BANNER CODETREE

- Authoritative source for everything BANNER related in a BANNER environment
- Contains baseline objects, Georgia Enhancement objects as well as local objects
<table>
<thead>
<tr>
<th>MODULE</th>
<th>FOLDER</th>
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</thead>
<tbody>
<tr>
<td>ACCOUNTS RECEIVABLE</td>
<td>arsys</td>
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<tr>
<td>GENERAL</td>
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<tr>
<td>STUDENT</td>
<td>student</td>
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<tr>
<td>FINANCIAL AID</td>
<td>finaid</td>
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<tr>
<td>SELF SERVICE</td>
<td>wtlweb</td>
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<tr>
<td>GEORGIA ENHANCEMENTS</td>
<td>gamod</td>
</tr>
</tbody>
</table>
WHAT KIND OF FILE IS THIS???

- **Pro*C**
  - *.pc - Pro*C source file
  - *.h - C header file
  - *.c - C source file

- **Pro*COBOL**
  - *.pco - Pro*COBOL source file
  - *.cob - Pro*COBOL copylibs
WHAT KIND OF FILE IS THIS???

- **Forms**
  - *.fmb - Forms binary source file
  - *.mmb - Menu binary source file
  - *.pll - Procedure Library
  - *.rdf - Reports binary source file
WHAT ABOUT SQL FILES???

- dbprocs
  - xxKxxxx.sql - package source code
  - xxPxxxx.sql - procedure source code
  - xxFxxxx.sql - function source code
  - xxTxxxx0.sql - trigger source code

- views
  - xxVxxxx0.sql - view creation

- Plus
  - xxxxxxxx.sql
BANNER CODE TREE

- Self Service products start with TW or BW
  - dbprocs
    - TWGKxxxx.sql - Web Tailor Global package source code
    - BWAKxxxx.sql - Advancement Self Service package source code
    - BWCKxxxx.sql - Common Self Service package
    - BWFKxxxx.sql - Finance Self Service package source code
    - BWGKxxxx.sql - General Self Service package source code
    - BWLKxxxx.sql - Faculty Self Service package
    - BWPKxxxx.sql - Employee Self Service package source code
    - BWRKxxxx.sql - Financial Aid Self Service package source code
    - BWSKxxxx.sql - Student Self Service package source code
BANNER UPDATES AND PATCHES

- Oracle/BANNER Schema object changes
  - Oracle Data Dictionary Changes (DDL)
- BANNER Data changes
  - Insert/Update/Delete of Data (DML)
- BANNER Software changes
  - Changes to BANNER software
    - May need to compile
    - May need to migrate to other servers
BANNER JOB SUBMISSION
SETTING UP PROCESS FOR JOB SUBMISSION

- GUAOBJS – Object Maintenance
- GJAJOBS – Process Maintenance
- GJAPDEF – Parameter Definitions
- GJAPVAL – Parameter Value Validations
- GJAPDFT – Default Parameter Value Validations
<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
<th>Type</th>
<th>System</th>
<th>Data Extract Option</th>
<th>Banner8/Banner9 Display Option</th>
<th>User ID</th>
<th>Activity Date</th>
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</thead>
<tbody>
<tr>
<td>ZRPWST2</td>
<td>CWSI Update Process</td>
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LENGTH: 1 TYPE: Character M/S: Single
Enter A=AUDIT ONLY  U=UPDATE/Process.
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<th>Description</th>
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<td>04</td>
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</table>

**User Default**

1011

LENGTH: 4 TYPE: Character M/S: Single
Enter Valid/Active Aid Year Code.
**Press SEARCH for valid values, NEXT BLOCK to copy values to new user**
BANNER JOB SUBMISSION

- Job submission input
  - Input files
  - File Manager
    - Secure FTP for File Transfer
- Job submission output
  - Print
  - File access
How does Job Submission work?
SO WHAT DO I NEED TO KNOW???
SO WHAT DO I NEED TO KNOW???

- SQL
- Possibly PL/SQL
- SQL
- Possibly C/Pro C
- SQL
- Possibly Oracle Forms
- SQL
- Possibly COBOL
- Let’s not forget to mention SQL
SO WHAT TOOLS DO I NEED???

- Processes
  - Text Editor
- Forms
  - Oracle Forms Builder *
- Self Service Objects
  - Text Editor
ORACLE FORMS BUILDER

- Up until now, all Oracle/BANNER Forms development has been done in Oracle Forms Builder 10g.
- After Q4 2013, Ellucian will be delivering Oracle Forms source code in 11g. This means we will need to have Oracle Forms Builder 11g to modify baseline forms.
DATABASE EXTENSION UTILITY
DBEU – WHAT IS IT?

- It is a script
- Adds up to 6 columns
- Required for Banner XE
- Two Phase Implementation
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### Extended Database

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DBEU COMPLIANCE

- Works in Non-Extended Database
- Works in Extended Database
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From Ellucian: Change Requests -- Did You Know?

by Matt Downing - Board of Regents of the University System of Georgia, Atlanta, GA on 04/16/2014 06:43 AM 0 comments 0 views


The following is being forwarded from Ellucian:

0.00 (0 votes)
GeorgiaBEST
Learning Library

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- Mobile
- Georgia Summit Materials
- Beta Webinar Slides

- Banner XE

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<tr>
<th>Document Name</th>
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<td>Banner XE Defects - July 2013</td>
<td>07/30/2013 01:19 PM</td>
<td>07/30/2013 01:19 PM</td>
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<td>by TommyMcGahee - Board of Regents of the University System of Georgia, Atlanta, GA</td>
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<td>DBEU Compliance - Identification Script</td>
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<td>by MiguelMorales - Board of Regents of the University System of Georgia, Atlanta, GA</td>
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<td>by MiguelMorales - Board of Regents of the University System of Georgia, Atlanta, GA</td>
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HOW TO IDENTIFY OBJECTS

- Perl Script (fii.pl)
- List files with implicit inserts
- Loop through sub-directories
WHAT ABOUT FORMS?
* Name

- Subclass Information

- Comments
- Trigger Style
  PL/SQL
- Trigger Text

EXECUTE_TRIGGER( 'GET_ONE_UP_NO' )
G$-_CHECK_FAILURE ;

-- 6.1

INSERT INTO GJBPRUN
  ( GJBPRUN_JOB, GJBPRUN_ONE_UP_NO, GJBPRUN_NUMBER,
    GJBPRUN_ACTIVITY_DATE, GJBPRUN_VALUE )
SELECT GJBPDEF_JOB, :ONE_UP_NO, GJBPDEF_NUMBER,
    TO_DATE(:CURRENT_DATE,G$_DATE.GET_NLS_DATE_FORMAT),
    DECODE(GJBPDEF_NUMBER, 1, :KEYBLCK_AIDY_CODE,
          2, 'O', 3, :KEYBLCK_STUDENT_ID)
FROM    GJBPDEF
WHERE GJBPDEF_JOB = 'RPRDDUP';
G$-_CHECK_VALUE ( SQL$NOTFOUND,
  G$-_NLS.Get('ROAIMMP-0029', 'FORM','*ERROR* Could not insert parameters for exec trigger';)
- Fire in Enter–Query Mode
  Yes
- Execution Hierarchy
  Override
- Display in 'Keyboard Help'
  No
- 'Keyboard Help' Text
- Trigger Steps

--------
$ fii.pl -r | sort | uniq

./dir_1/sample_B.sql: schema_b.table_b2
./dir_1/sample_B.sql: schema_b.table_b4
./sample_A.sql: TABLE_A3

$
I HAVE TONS TO UPDATE, HELP???

- Perl Script (dbeu.pl)

- Requires some manual adjustments
BEGIN{undef $/;}

s/(insert\s*into\s*)(\w*)\s*values\s*\((.*)\)?\s*\((.*)\)?\s*\(/gism;

s/(insert\s*into\s*)(\w*)\s*select\s*\((.*)\)?\s*\((.*)\)?\s*\(/gism;
$ mmorales@donut:/export/home/mmorales/summit_demo[]
$dbeu.pl sample_A.sql
$ mmorales@donut:/export/home/mmorales/summit_demo[]
$dbeu.pl dir_1/sample_B.sql
$ mmorales@donut:/export/home/mmorales/summit_demo[]
$
University System of Georgia Banner XE Planning Roadmap

2013
- Q3: Technical Readiness Team Meetings
- Q4: Technical Readiness Team Meetings

2014
- Q1: Technical Readiness Team Meetings
- Q2: Technical Readiness Team Meetings
- Q3: Technical Readiness Team Meetings
- Q4: Technical Readiness Team Meetings

2015
- Q1: Technical Readiness Team Meetings
- Q2: Technical Readiness Team Meetings

Training
- DBEU Compliance Session at Georgia Summit
- Java Fundamentals Training (5 days)
- Java Programming (5 days)
- WebLogic Administration (5 days)
- Grails Training Foundation
- Grails Application Standards for Banner XE
- Rock Eagle DBA Pre-conference for Banner XE best practices and configuration

Deliverables
- Phase 1 Beta Release of Georgia Enhancements with Banner DBEU Compliant Baseline Schema
- Phase 1 Release of Georgia Enhancements with Banner DBEU Compliant Baseline Schema
- Phase 2 Beta Release of Georgia Enhancements with Banner DBEU Compliant Baseline Schema
- Phase 2 Release of Georgia Enhancements with Banner DBEU Compliant Baseline Schema
- Release of DBEU 8.0.0.3
- Alpha release of available Banner XE modules to Technical Readiness Team
- Georgia Enhancement 8.24 Release with first DBEU Compliant Baseline Schema
- Beta Testing Round One
- Beta Testing Round Two
- Release of XE Modules that do not require Georgia Enhancements
- Release of Georgia Enhancements with DBEU Applied
- Linux Standardization. End support for HP-UX and Solaris.

GeorgiaBEST Program
- Ongoing Banner 8.x support — support will continue as long as Ellucian provides support. No decommission date has been set by Ellucian.

2014 Banner XE Modules include Event Management, Faculty Grade Entry, Attendance Tracking, Catalog, and Schedule
2015 Banner XE Modules planned for release by Ellucian include Registration and Academic History
GeorgiaBEST Release Process
SCHEDULE FOR RELEASE

- Change Requests, Defects, Corrections and Enhancements
- Resource Allocation
- Beta Testing
FUNCTIONAL SPECIFICATIONS

- Documentation
- Lis and Log Files
- Screenshots
- Test plan
SPECIFICATION TURNOVER

- Developer & Analyst Communication
- Development Input
- Agreement on Deliverables
DEVELOPMENT
DEVELOPMENT

- Specifications are the blueprint
- Scope Creep
- Unit Testing
CODING STANDARDS

- Naming Conventions
- Code Formatting
- Standard Input/Output
- Comments
- Audit History
SQL and PL/SQL specific requirements

For PL/SQL, every block has a BEGIN, EXCEPTION, and an END clause.

For PL/SQL, when using a WHEN OTHERS exception, the error message is displayed or printed using the SQLCODE and SQLERRM built-in functions.

For PL/SQL nested blocks, the outer block exception clause does not reference a null condition. Example: WHEN OTHERS NULL;

Each SQL command begins on a new line.

Use of uppercase, lowercase and mixed case is consistent.

SQL statements are left-justified except where nested statements are required.

Nested statements are indented consistently under the original select. If more than one nesting level is used, the indentation of each select is graduated to the right so that the statements are not directly underneath each other.

Reference to columns use the full [table.column] or [alias.column] syntax only when required to uniquely identify the column.

A column list is used in INSERT statements. INSERT statements must specifically include the names of the columns being inserted.

Commas are placed at the right of the applicable lines of code. Lines of code do not begin with commas.

Indexes are utilized when available.

The largest table or table with the poorest performance is listed last in the FROM section of the statement.

Join conditions are listed last in the WHERE section of the statement.

Use of complex OR OR conditions are avoided whenever a union can be used.
/* sample_report.sql - Georgia Summit Sample Report  */

/*
 * Release 8.2   LMM
 * Release 8.10  YT
 * Release 8.15  JJ
 */

/*****************************/

SELECT TO_CHAR(SYSDATE, 'DD-MON-YYYY HH24:MI:SS') datevar, &1 oneupno,
UPPER('SAMPLE') nameofjob, '8.15' version FROM DUAL;

START ZYSBSEC &job_name;

SELECT LOWER('&job_name' || '_' || &one_up || '.lis') spoolfile FROM DUAL;

SPOOL $H/&lis_file

select spriden_id, substr(spriden_last_name,1,30),
spriden_first_name from spriden where spriden_change_ind is null
    ORDER BY SPRIDEN_LAST_NAME, SPRIDEN_FIRST_NAME;

SPOOL OFF
/* sample_report.sql - Georgia Summit Sample Report */
/* */
/* Description: This Report will display information from SPRIDEN */
/* */
/* Audit Trail: 8.2 LMM 8/9/09 */
/* */
/* 1. Initial development */
/* */
/* AUDIT TRAIL: 8.10 */
/* */
/* 1. Removed SPRIDEN_PIDM from the report */
/* */
/* AUDIT TRAIL: 8.15 */
/* */
/* 1. Added SUBSTR to the SPRIDEN_LAST_NAME */
/* */
/* 2. Changed the ORDER BY CLAUSE to include SPRIDEN_FIRST_NAME */
/* */
/* AUDIT TRAIL END */
/* */
/* TABLES USED */
/* */
/* 01. SPRIDEN */
/* */
/* PARAMETERS */
/* */
/* None */
/* */

/* Define the Report Properties */
SELECT TO_CHAR(SYSDATE, 'DD-MON-YYYY HH24:MI:SS') datevar,
     &1 oneupno,
     UPPER('ZSRTUIC') nameofjob,
    '8.15' version
FROM DUAL;

/* Run the security sql file */
START ZYSBSEC &job_name

/* Define the name of the lis file */
SELECT LOWER('&job_name' || '_' || &one_up || '.lis') spoolfile
FROM DUAL;
SELECT SPRIDEN_ID, SPRIDEN_PIDM, SUBBSTR(SPRIDEN_LAST_NAME, 1, 30), SPRIDEN_FIRST_NAME
FROM SPRIDEN
WHERE SPRIDEN_CHANGE_IND IS NULL
ORDER BY SPRIDEN_LAST_NAME, SPRIDEN_FIRST_NAME;

SPOOL $H/\&lis_file
SOURCE VERSION CONTROL

- File Recovery
- Everyone has access to the same objects
- Code Branching and Merging
PEER REVIEW

- Coding Standards
- Conform to Best Practices
- Knowledge Share
- Not just for Developers
* 1644 516001* Pell LEU percent to limit the Banner Pell award.
 1645 516001* display a warning message, if appropriate.
 1646 516001* Discontinue use of RCRLD54_PELL_NSLDS_IND and field.
 1647 516001* Pell calculation to use NSLDS.
 1648 5167001* AUDIT TRAIL: 8.17
 1649 5167001* 1. H. Wood 12/14/2012
 1650 5167001* Available to Offer specification.
 1651 5167001* Expand the following columns to NUMBER(17,2).
 1652 5167001* RFRASPC_TOTALALLOC_AMT
 1653 5167001* RFRASPC_AUTHORIZE_AMT
 1654 5167001* RFRASPC_MEMO_AMT
 1655 5167001* RFRASPC_PAID_AMT
 1656 5168001* AUDIT TRAIL: 8.18
 1657 5168001* 1. H. Wood 03/26/2013
 1658 5168001* Defect 1-1CEV95
 1659 5168001* RPEPELL does not populate the RORSTAT HIGH PELI.
 1660 5168001* with 'E Pell LEU Met or exceeded' if the NSLDS
 1661 5168001* Lifetime Eligibility Used is already greater than
 1662 5168001* equal to 600% when the Pell process is run for
 1663 5168001* time for the student and aid year.
 1664 518001*

* 1665 518001* AUDIT TRAIL END
 1666 518001* ***************************************

* 1668 518001* ENVIRONMENT DIVISION.
 1669 518001* CONFIGURATION SECTION.
 1670 *

* 1671 518001* EXEC SQL INCLUDE SPCCNAME END-EXEC.
 1672 *
 1673 518001* INPUT-OUTPUT SECTION.
 1674 518001* FILE-CONTROL.
 1675 *

* 1675 518001* AUDIT TRAIL END
 1676 518001* ***************************************

* 1678 518001* ENVIRONMENT DIVISION.
 1679 518001* CONFIGURATION SECTION.
 1680 *
INTERNAL TESTING

- Follow the Test Plan
- Test, Test, Test
- Get creative
- New and Old Functionality
- Release Checkpoint
BETA TESTING

- Beta Test Plan
- Collect Results
- Beta Remediation
- Run the Test Plan again
CERTIFICATION

- Certify on Oracle 11.2.0.2.0 and Linux 5
- Linux only support as of January 2014
PRODUCTION RELEASE

- Package All Objects
- Install Order
- Verify Dependencies and Pre-Requisites
- User Documentation
QUESTIONS?
WHERE CAN I FIND HELP?

Community Sources

http://www.edu1world.org/Commons

Authoritative Sources

http://www.usg.edu/georgia_best

http://www.edu1world.org/USG